

Mayflower Pipeline Incident Mayflower, AR Summary of Air Monitoring Results Recorded Near Dawson's Cove¹

This data report discusses air monitoring data recorded on Apr 09, 2013 to Apr 14, 2013 in support of mitigation and remediation operations conducted pipeline release near Mayflower, AR.

Real-time air monitoring for Volatile Organic Compounds (VOCs), H2S, SO2, Hexane, Xylene, Toluene, and Benzene were conducted using hand-held instruments such as the RAESystems© MultiRAE, UltraRAE, and Gastec© colorimetric detector tubes. Table 1 contains a summary of handheld data representing readings collected near Dawson's Cove to the East of I-40

Table 1: 04/09/2013 00:00 to 04/14/2013 15:30

Work Area				
Analyte	Number of Readings	Number of Detections	Average of Detections	Maximum Concentration
Benzene	53	0	N/A	< 0.05 ppm
H₂S	60	0	N/A	< 1 ppm
Hexane	1	0	N/A	< 1 ppm
Toluene	1	0	N/A	< 1 ppm
VOC	82	3	0.267 ppm	0.4 ppm
Xylene	1	0	N/A	< 1 ppm

Community				
Analyte	Number of Readings	Number of	Average of Detections	Maximum Concentration
	Readings	Detections	Detections	Concentration
Benzene	117	0	N/A	< 0.05 ppm
H₂S	194	0	N/A	< 1 ppm
SO ₂	1	0	N/A	< 0.1 ppm
VOC	232	0	N/A	< 0.1 ppm

¹ Note: The information provided below has not been processed by the QAQC department.



Figure 1: VOC Reading Recorded 4/9/2013 9:30 AM

Field Data

Project number 40435

Reading date 2013/04/09 09:30

Latitude 34.96657

Longitude -92.417607

Distance From Site 0.31

Location description N bayou zone F

Indoor/Outdoor Outdoor

Instrument MultiRAE

Instrument barcode 12380

Matrix Air

Analyte VOC

Concentration 0.1

Units ppm

Comments Exhaust fumes odor; Exhaust fumes present;

Crude oil odor; Visible Oil; boom present;

Workers present; Slight Odor;

Initials Anthony Williams

Instrument details

Additional comments workers spraying water to push oil from one

side to the other. water pumps are operating.

Detection limit 0.1

Detection flag

Gps method Automatic

Guid 82DA608C-44EC-4B48-A793-47CE71E4F136

Created 2013/04/09 09:30



Figure 2: VOC Reading Recorded 4/10/2013 10:43 AM

Field Data

Field Data	
Project number	40435
Reading date	2013/04/10 10:43
Latitude	34.96466
Longitude	-92.41985
Distance From Site	0.16
Location description	I-40 Culvert (zone D) about 40 yds east of
	culvert on creek
Indoor/Outdoor	Outdoor
Instrument	MultiRAE
Instrument barcode	12551
Matrix	Air
Analyte	voc
Concentration	0.3
Units	ppm
Comments	Crude oil odor; Visible Oil; boom present;
	Workers present; Down wind; Moderate Odor;
Initials	Tommy Arnold
Instrument details	
Additional comments	NO H2S OR LEL DETECTED. mat'l handler is
	using a gas blwr to push product on surf of
water to collection point; m	at'l handler washing product from scalped
ground & various holes in gr	ounds. Personnel wearing PFDs. No respirators
Detection limit	0.1
Detection flag	
Gps method	Automatic
Guid	CCC95F3D-2CFB-4E88-AC86-9C8CD9F88590
Created	2013/04/10 10:43



Figure 3: VOC Reading Recorded 4/10/2013 2:42 PM

Eiold Data

Field Data	
Project number	40435
Reading date	2013/04/10 14:42
Latitude	34.965229
Longitude	-92.418556
Distance From Site	0.24
Location description	South Bayou. standing on an island 30 yds
	northeast from zone's staging area. island

ne's staging area. island surrounded with product floating on the water

Danie dania da ministra produce mo	- t g
Indoor/Outdoor	Outdoor
Instrument	MultiRAE
Instrument barcode	12551
Matrix	Air
Analyte	VOC
Concentration	0.4
Units	ppm

Comments Crude oil odor; Visible Oil; Workers present; Moderate Odor;

Initials Tommy Arnold

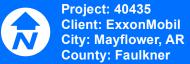
Instrument details

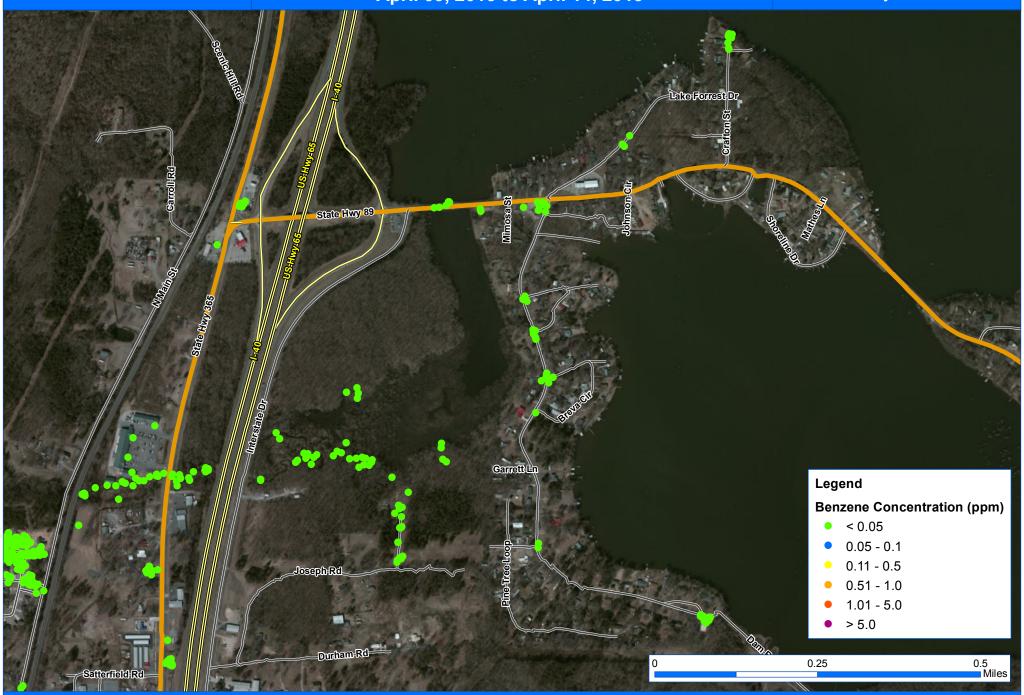
Additional comments NO H2S OR LEL DETECTED. material handlers washing roots, base of trees, and pushing product on water's surface to collection points. Personnel Wearing PFDs. No respirators.

Detection limit	0.1
Detection flag	
Gps method	Automatic
Guid	513CE4CC-6715-46D6-913F-76B9C0018B8B
Created	2013/04/10 14:42

CTEH

Handheld Real-time Monitoring Benzene Concentrations Near Dawson's Cove April 09, 2013 to April 14, 2013





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Handheld Real-time Monitoring
VOC Concentrations Near Dawson's Cove
April 09, 2013 to April 14, 2013

